

CLAIMS

What is claimed is:

- 1 1. A method for augmenting a debugger having debugging functionality used to debug a
2 first program, comprising the steps of:
 - 3 providing the debugger;
 - 4 providing a second program having second-program functionality; and
 - 5 providing integration code for
 - 6 analyzing commands used to debug the first program, and
 - 7 invoking appropriate pieces of code to perform tasks in responding to
 - 8 such commands;
 - 9 wherein the appropriate pieces of code are selected from one or a combination
 - 10 of
 - 11 functionality provided in a library,
 - 12 the debugging functionality, and
 - 13 the second-program functionality.
- 1 2. The method of claim 1 further comprises the step of using an instrumentor as the
2 second program.
- 1 3. The method of claim 1 further comprises the step of using a first piece of code having
2 the appropriate pieces of code to perform the tasks.

00000000000000000000000000000000

- 1 4. The method of claim 3 further comprises the step of making the first piece of code an
- 2 executable part of the first program.
- 1 5. The method of claim 3 further comprises the step of using a trampoline as the first
- 2 piece of code.
- 1 6. The method of claim 1 wherein the commands are selected from one or a
- 2 combination of:
 - 3 input from a user using the debugger;
 - 4 a script file associated with the first program; and
 - 5 a configuration file associated the first program.
- 1 7. The method of claim 1 further comprises the step of inputting the commands at a
- 2 debugging prompt provided by the debugger.
- 1 8. The method of claim 1 further comprises the steps of:
 - 2 integrating the debugger, the instrumentor, and the integration code into a
 - 3 combined code; and
 - 4 embedding the combined code into a language environment.
- 1 9. The method of claim 8 further comprises the step of using the Integrated Development
- 2 Environment as the language environment.

- 1 10. A system for augmenting a debugger having debugging functionality used to debug a
- 2 first program, comprising:
 - 3 the debugger;
 - 4 a second program having second-program functionality; and
 - 5 integration code for
 - 6 analyzing commands used to debug the first program, and
 - 7 invoking appropriate pieces of code to perform tasks in responding to
 - 8 such commands;
- 9 wherein the appropriate pieces of code are selected from one or a combination
- 10 of
 - 11 functionality provided in a library,
 - 12 the debugging functionality, and
 - 13 the second-program functionality.
- 1 11. The system of claim 10 further comprises an instrumentor used as the second
- 2 program.
- 1 12. The system of claim 10 further comprises a first piece of code having the appropriate
- 2 pieces of code to perform the tasks.
- 1 13. The system of claim 12 wherein the first piece of code is an executable part of the first
- 2 program.
- 1 14. The system of claim 12 wherein a trampoline is used as the first piece of code.

1 15. The system of claim 10 wherein the commands are selected from one or a
2 combination of:

3 input from a user using the debugger;
4 a script file associated with the first program; and
5 a configuration file associated the first program.

1 16. The system of claim 10 wherein the commands are input at a debugging prompt
2 provided by the debugger.

1 17. The system of claim 10 wherein:
2 the debugger, the instrumentor, and the integration code are integrated into a
3 combined code; and
4 the combined code is embedded in a language environment.

1 18. The system of claim 17 wherein the Integrated Development Environment is used as
2 the language environment.

1 19. A computer-readable medium embodying instructions that cause a computer to
2 perform a method for augmenting a debugger having debugging functionality used to
3 debug a first program, the method comprising the steps of:
4 providing the debugger;
5 providing a second program having second-program functionality; and
6 providing integration code for
7 analyzing commands used to debug the first program, and

invoking appropriate pieces of code to perform tasks in responding to such commands;

10 wherein the appropriate pieces of code are selected from one or a combination
11 of
12 functionality provided in a library,
13 the debugging functionality, and
14 the second-program functionality.

1 20. The computer-readable medium of claim 19 wherein the method further comprises the
2 step of using an instrumentor as the second program.